

Title (en)  
BANDWIDTH SELECTION METHOD OF WIRELESS FIDELITY TECHNOLOGY AND ACCESS POINT (AP)

Title (de)  
BANDBREITENAUSWAHLVERFAHREN EINER WLAN-TECHNOLOGIE UND ZUGANGSPUNKT

Title (fr)  
PROCÉDÉ DE SÉLECTION DE BANDE PASSANTE DE TECHNOLOGIE WI-FI ET POINT D'ACCÈS (AP)

Publication  
**EP 3148249 A1 20170329 (EN)**

Application  
**EP 14896990 A 20140707**

Priority  
CN 2014081741 W 20140707

Abstract (en)  
Embodiments of the present invention provide a bandwidth selection method of a Wireless Fidelity technology and an AP, and in the method, the AP obtains a negotiation bandwidth negotiated by the AP and a station STA. The method includes: receiving, by the AP, a data transmission request of the STA; obtaining, by the AP, a transmission bandwidth upper limit of the STA; and delivering, by the AP, a first MCS to the STA if the transmission bandwidth upper limit is less than the negotiation bandwidth, where the first MCS is less than an MCS that is corresponding to the negotiation bandwidth and that is in a correspondence between a bandwidth and an MCS, and is greater than or equal to an MCS that is corresponding to the transmission bandwidth upper limit and that is in the correspondence between a bandwidth and an MCS. It can be learned that in the embodiments of the present invention, not only the negotiation bandwidth negotiated by the AP and the STA is considered, but also the transmission bandwidth upper limit of the STA is considered, and a finally delivered MCS is reduced according to the transmission bandwidth upper limit of the STA in some scenarios of improper high transmission bandwidths, thereby reducing a delivered transmission bandwidth. Therefore, power consumption of access point AP and station STA side devices is reduced, and a standby time thereof is increased.

IPC 8 full level  
**H04W 28/20** (2009.01); **H04L 29/02** (2006.01)

CPC (source: EP US)  
**H04L 1/0009** (2013.01 - US); **H04L 65/00** (2013.01 - EP US); **H04W 28/20** (2013.01 - EP US); **H04W 48/08** (2013.01 - US); **H04W 52/0206** (2013.01 - EP US); **H04W 52/0209** (2013.01 - EP US); **H04W 72/27** (2023.01 - US); **H04W 84/12** (2013.01 - US); **Y02D 30/70** (2020.08 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3148249 A1 20170329**; **EP 3148249 A4 20170531**; **EP 3148249 B1 20190821**; CN 105900481 A 20160824; CN 105900481 B 20191217; JP 2017521010 A 20170727; JP 6440176 B2 20181219; US 10069593 B2 20180904; US 2017134119 A1 20170511; WO 2016004566 A1 20160114

DOCDB simple family (application)  
**EP 14896990 A 20140707**; CN 2014081741 W 20140707; CN 201480071712 A 20140707; JP 2017500974 A 20140707; US 201415322301 A 20140707